

Wi-Fi Direct™ Guide



Applicable models

This User's Guide applies to the following models:

DCP-J4110DW, MFC-J2310/J2510/J4310DW/J4410DW/J4510DW/J4610DW/J4710DW

Definitions of notes

We use the following icon throughout this User's Guide:

NOTE	Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.
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IMPORTANT NOTE

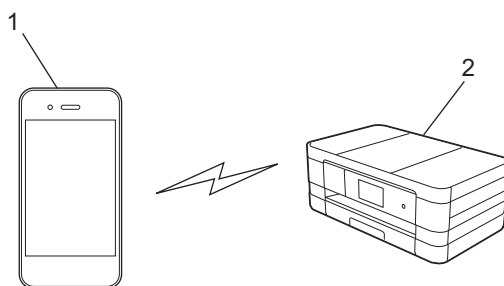
- In this manual, the LCD messages of the MFC-J2510 or MFC-J4510DW are used unless specified.
- Please go to the Brother Solutions Center at <http://solutions.brother.com/> and click **Manuals** on your model page to download the other manuals.
- Not all models are available in all countries.

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Overview

Wi-Fi Direct™ is one of the wireless configuration methods developed by the Wi-Fi Alliance®. It allows you to configure a secured wireless network between your Brother machine and a mobile device, such as an Android™ device, Windows® Phone device, iPhone, iPod touch, or iPad, without using an access point. Wi-Fi Direct supports wireless network configuration using the one-push or PIN Method of Wi-Fi Protected Setup™ (WPS). You can also configure a wireless network by manually setting an SSID and password. Your Brother machine's Wi-Fi Direct feature supports WPA2™ security with AES encryption.



1 Mobile device

2 Your Brother machine

NOTE

- Although the Brother machine can be used in both a wired and wireless network, only one connection method can be used at a time. However, a wireless network connection and Wi-Fi Direct connection, or a wired network connection and Wi-Fi Direct connection can be used at the same time.
- The Wi-Fi Direct supported device can become a Group Owner (G/O). When configuring the Wi-Fi Direct network, the G/O serves as an access point (see *Group Owner (G/O)* on page 17).
- When your Brother machine is the G/O, your Brother machine supports one-to-one wireless communication using Wi-Fi Direct.
- Ad-hoc mode and Wi-Fi Direct cannot be used at the same time. Disable one function to enable the other. If you want to use Wi-Fi Direct while you are using Ad-hoc mode, set Network I/F to LAN or disable Ad-hoc mode and connect your Brother machine to the access point.

Benefits

When you want to print from your mobile device or scan to your mobile device, Wi-Fi Direct helps you configure a temporary wireless network easily, by using the one-push or PIN Method of WPS. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).

Hardware requirements

Supported operating systems

You must have a Windows® Phone or a device running either Android™ 1.6 or greater or iOS 3.0 or greater.

Downloading and installing Brother iPrint&Scan

Brother iPrint&Scan allows you to use features of your Brother machine directly from your mobile device, without using a computer. Before you start configuring a wireless network using Wi-Fi Direct, we recommend downloading Brother iPrint&Scan. Download the Brother iPrint&Scan guide from the Brother Solutions Center (<http://solutions.brother.com/>).

For Android™ Devices

You can download and install Brother iPrint&Scan from Google Play (Android™ Market). To take advantage of all the features supported by Brother iPrint&Scan, make sure you are using the latest version.

To download and install or to uninstall Brother iPrint&Scan, see the user's guide for your mobile device.

For iOS Devices

You can download and install Brother iPrint&Scan from the App Store. To take advantage of all the features supported by Brother iPrint&Scan, make sure you are using the latest version.

To download and install or to uninstall Brother iPrint&Scan, see the user's guide for your mobile device. A link to your mobile device's user's guide, which can be viewed on the Apple website, is a default link in Safari's **Bookmarks** folder.

For Windows® Phone Devices

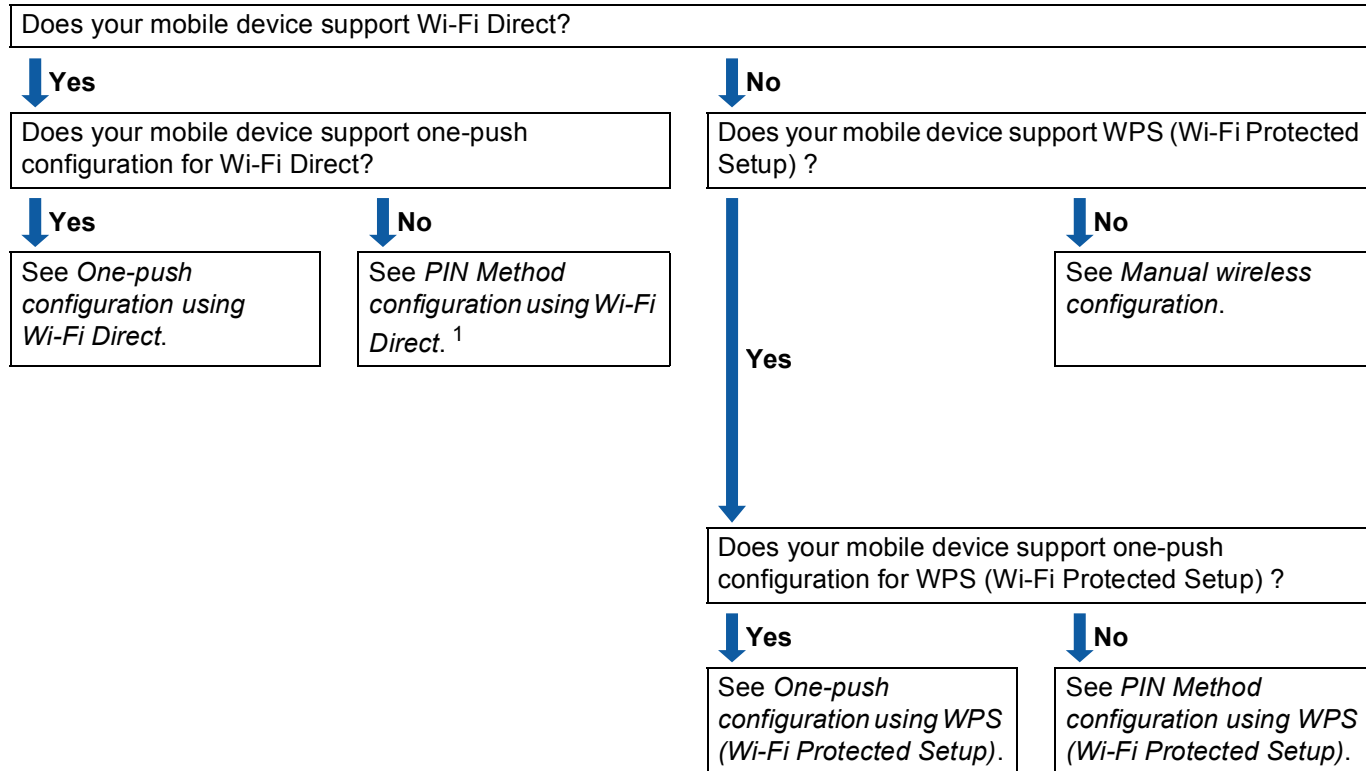
You can download and install Brother iPrint&Scan from the Windows® Phone Marketplace. To take advantage of all the features supported by Brother iPrint&Scan, make sure you are using the latest version.

To download and install or to uninstall Brother iPrint&Scan, see the user's guide for your mobile device.

Step by step chart for Wi-Fi Direct network configuration

The following instructions offer five methods for configuring your Brother machine in a wireless network environment. Choose the method you prefer for your environment.

Check your mobile device for configuration.



¹ If you cannot connect successfully when using Android™ 4.0, see *One-push configuration using Wi-Fi Direct*.

■ One-push configuration using Wi-Fi Direct

For MFC-J2510/J4510DW/J4710DW, see *One-push configuration using Wi-Fi Direct* on page 5.

For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW, see *One-push configuration using Wi-Fi Direct* on page 10.

■ One-push configuration using WPS (Wi-Fi Protected Setup)

For MFC-J2510/J4510DW/J4710DW, see *One-push configuration using WPS (Wi-Fi Protected Setup)* on page 6.

For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW, see *One-push configuration using WPS (Wi-Fi Protected Setup)* on page 10.

■ PIN Method configuration using Wi-Fi Direct

For MFC-J2510/J4510DW/J4710DW, see *Configuration using the PIN Method of Wi-Fi Direct* on page 6.

For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW, see *Configuration using the PIN Method of Wi-Fi Direct* on page 11.

■ PIN Method configuration using WPS (Wi-Fi Protected Setup)

For MFC-J2510/J4510DW/J4710DW, see *Configuration using the PIN Method of WPS (Wi-Fi Protected Setup)* on page 7.

For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW, see *Configuration using the PIN Method of WPS (Wi-Fi Protected Setup)* on page 12.

■ Manual wireless configuration

For MFC-J2510/J4510DW/J4710DW, see *Manual configuration for a Wi-Fi Direct network* on page 8.

For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW, see *Manual configuration for a Wi-Fi Direct network* on page 13.

NOTE

To use the Brother iPrint&Scan functionality in a Wi-Fi Direct network configured by *One-push configuration using Wi-Fi Direct* or by *PIN Method configuration using Wi-Fi Direct*, the device you use to configure Wi-Fi Direct must be running Android™ 4.0 or greater.

Configuring your network using Wi-Fi Direct (For MFC-J2510/J4510DW/J4710DW)



The Wi-Fi Direct network settings are configured from the control panel of your Brother machine.

One-push configuration using Wi-Fi Direct

If your mobile device supports Wi-Fi Direct, follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Wi-Fi Direct connection request received.` will be displayed. Press `OK` to connect.



- 1 Press .
- 2 Press `All Settings`.
- 3 Press `Network`.
- 4 Press `Wi-Fi Direct`.
- 5 Press `Push Button`.
- 6 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.
- 7 Activate Wi-Fi Direct on your mobile device (see your mobile device's user's guide for instructions) when `Activate Wi-Fi Direct on other device.` Then Press `[OK]`. is displayed.
Press `OK` on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 8 Do one of the following:
 - When your Brother machine is the G/O, connect your mobile device to the machine directly.
 - When your Brother machine is not the G/O, it will display available device names with which to configure a Wi-Fi Direct network. Choose the mobile device to which you want to connect and press `OK`. Search for available devices again by pressing `Rescan`.
- 9 If your mobile device connects successfully, the machine displays the message `Connected`.
You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.

One-push configuration using WPS (Wi-Fi Protected Setup)

If your mobile device supports WPS (PBC; Push Button Configuration), follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Wi-Fi Direct connection request received.` will be displayed. Press **OK** to connect.

- 1 Press .
- 2 Press `All Settings`.
- 3 Press `Network`.
- 4 Press `Wi-Fi Direct`.
- 5 Press `Group Owner` and then press **On**.
- 6 Press `Push Button`.
- 7 When `Wi-Fi Direct On?` is displayed, press **On** to accept.
To cancel, press **Off**.
- 8 When `Activate Wi-Fi Direct on other device.` Then Press `[OK].` is displayed, activate your mobile device's WPS one-push configuration method (see your mobile device's user's guide for instructions) and then press **OK** on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 9 If your mobile device connects successfully, the machine displays the message `Connected`.
You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.


Configuration using the PIN Method of Wi-Fi Direct


If your mobile device supports the PIN Method of Wi-Fi Direct, follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Wi-Fi Direct connection request received.` will be displayed. Press **OK** to connect.

- 1 Press .
- 2 Press `All Settings`.
- 3 Press `Network`.

- 4 Press `Wi-Fi Direct`.
- 5 Press `PIN Code`.
- 6 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.
- 7 Activate Wi-Fi Direct on your mobile device (see your mobile device's user's guide for instructions) when `Activate Wi-Fi Direct on other device. Then Press [OK].` is displayed. Press `OK` on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 8 Do one of the following:
 - When your Brother machine is the G/O, it will wait for a connection request from your mobile device. When `PIN Code` appears, type the PIN displayed on your mobile device in to the machine. Press `OK`. Follow the instructions and go to step 10.
If the PIN is displayed on your Brother machine, type the PIN to your mobile device.
 - When your Brother machine is not the G/O, it will display available device names with which to configure a Wi-Fi Direct network. Choose the mobile device to which you want to connect and press `OK`. Search for available devices again by pressing `Rescan`. Go to step 9.
- 9 Do one of the following:
 - Press `Display PIN Code` to display the PIN on your machine and type the PIN in to your mobile device. Follow the instructions and then go to step 10.
 - Press `Input PIN Code` to type a PIN shown by your mobile device in to the machine and then press `OK`. Follow the instructions and then go to step 10.

If your mobile device does not display a PIN, press  on your Brother machine. Go back to step 1 and try again.
- 10 If your mobile device connects successfully, the machine displays the message `Connected`. You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.


Configuration using the PIN Method of WPS (Wi-Fi Protected Setup)

If your mobile device supports the PIN Method of WPS (Wi-Fi Protected Setup), follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Wi-Fi Direct connection request received.` will be displayed. Press `OK` to connect.

- 1 Press .
- 2 Press `All Settings`.


- 3 Press Network.
- 4 Press Wi-Fi Direct.
- 5 Press Group Owner and then press On.
- 6 Press PIN Code.
- 7 When Wi-Fi Direct On? is displayed, press On to accept.
To cancel, press Off.
- 8 When Activate Wi-Fi Direct on other device. Then Press [OK]. is displayed, activate your mobile device's WPS PIN configuration method (see your mobile device's user's guide for instructions) and then press OK on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 9 The machine will wait for a connection request from your mobile device. When PIN Code appears, type the PIN displayed on your mobile device in to the machine.
Press OK.
- 10 If your mobile device connects successfully, the machine displays the message Connected. You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.

Manual configuration for a Wi-Fi Direct network

If your mobile device does not support Wi-Fi Direct or WPS, you must configure a Wi-Fi Direct network manually.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message Wi-Fi Direct connection request received. will be displayed. Press OK to connect.

- 1 Press .
- 2 Press All Settings.
- 3 Press Network.
- 4 Press Wi-Fi Direct.
- 5 Press Manual.
- 6 When Wi-Fi Direct On? is displayed, press On to accept.
To cancel, press Off.
- 7 The machine will show the SSID name and Password for two minutes. Go to the wireless network settings page of your mobile device and type the SSID name and password.

- 8 If your mobile device connects successfully, the machine displays the message `Connected`. You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>). If the connection fails, see *Troubleshooting* on page 14.

Configuring your network using Wi-Fi Direct (For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW)


The Wi-Fi Direct network settings are configured from the control panel of your Brother machine.

One-push configuration using Wi-Fi Direct

If your mobile device supports Wi-Fi Direct, follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Received Wi-Fi Direct connection request.` will be displayed. Press `Connect` to connect.


- 1 Press `Settings`.
- 2 Press `^` or `v` to choose `Network`.
- 3 Press `^` or `v` to choose `Wi-Fi Direct`.
- 4 Press `Push Button`.
- 5 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.
- 6 Activate Wi-Fi Direct on your mobile device (see your mobile device's user's guide for instructions) when `Activate Wi-Fi Direct on other device. Then Press [OK].` is displayed.
Press `OK` on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 7 Do one of the following:
 - When your Brother machine is the G/O, connect your mobile device to the machine directly.
 - When your Brother machine is not the G/O, it will display available device names with which to configure a Wi-Fi Direct network. Choose the mobile device to which you want to connect and press `OK`. Search for available devices again by pressing `Rescan`.
- 8 If your mobile device connects successfully, the machine displays the message `Connected`.
You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.

One-push configuration using WPS (Wi-Fi Protected Setup)

If your mobile device supports WPS (PBC; Push Button Configuration), follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Received Wi-Fi Direct connection request.` will be displayed. Press `Connect` to connect.

- 1 Press `Settings`.
- 2 Press `▲` or `▼` to choose `Network`.
- 3 Press `▲` or `▼` to choose `Wi-Fi Direct`.
- 4 Press `▲` or `▼` to choose `Group Owner` and then press `On`.
- 5 Press `▲` or `▼` to choose `Push Button`.
- 6 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.
- 7 When `Activate Wi-Fi Direct on other device. Then Press [OK].` is displayed, activate your mobile device's WPS one-push configuration method (see your mobile device's user's guide for instructions) and then press `OK` on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 8 If your mobile device connects successfully, the machine displays the message `Connected`.
You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.


Configuration using the PIN Method of Wi-Fi Direct


If your mobile device supports the PIN Method of Wi-Fi Direct, follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Received Wi-Fi Direct connection request.` will be displayed. Press `Connect` to connect.

- 1 Press `Settings`.
- 2 Press `▲` or `▼` to choose `Network`.
- 3 Press `▲` or `▼` to choose `Wi-Fi Direct`.
- 4 Press `PIN Code`.
- 5 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.

- 6 Activate Wi-Fi Direct on your mobile device (see your mobile device's user's guide for instructions) when `Activate Wi-Fi Direct on other device`. Then Press `[OK]`. is displayed. Press `OK` on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 7 Do one of the following:
 - When your Brother machine is the G/O, it will wait for a connection request from your mobile device. When `PIN Code` appears, type the PIN displayed on your mobile device in to the machine. Press `OK`. Follow the instructions and go to step 9.
If the PIN is displayed on your Brother machine, type the PIN in to your mobile device.
 - When your Brother machine is not the G/O, it will display available device names with which to configure a Wi-Fi Direct network. Choose the mobile device to which you want to connect and press `OK`. Search for available devices again by pressing `Rescan`. Go to step 8.
- 8 Do one of the following:
 - Press `Display PIN Code` to display the PIN on your machine and type the PIN in to your mobile device. Follow the instructions and then go to step 9.
 - Press `Input PIN Code` to type a PIN shown by your mobile device in to the machine and then press `OK`. Follow the instructions and then go to step 9.

If your mobile device does not display a PIN, press  on your Brother machine. Go back to step 1 and try again.
- 9 If your mobile device connects successfully, the machine displays the message `Connected`. You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.


Configuration using the PIN Method of WPS (Wi-Fi Protected Setup)

If your mobile device supports the PIN Method of WPS (Wi-Fi Protected Setup), follow these steps to configure a Wi-Fi Direct network.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Received Wi-Fi Direct connection request`. will be displayed. Press `Connect` to connect.

- 1 Press `Settings`.
- 2 Press `▲` or `▼` to choose `Network`.
- 3 Press `▲` or `▼` to choose `Wi-Fi Direct`.
- 4 Press `▲` or `▼` to choose `Group Owner` and then press `On`.
- 5 Press `▲` or `▼` to choose `PIN Code`.







- 6 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.
- 7 When `Activate Wi-Fi Direct on other device. Then Press [OK].` is displayed, activate your mobile device's WPS PIN configuration method (see your mobile device's user's guide for instructions) and then press `OK` on your Brother machine. This will start the Wi-Fi Direct setup.
To cancel, press .
- 8 The machine will wait for a connection request from your mobile device. When `PIN Code` appears, type the PIN displayed on your mobile device in to the machine.
Press `OK`.
- 9 If your mobile device connects successfully, the machine displays the message `Connected`.
You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.

Manual configuration for a Wi-Fi Direct network

If your mobile device does not support Wi-Fi Direct or WPS, you must configure a Wi-Fi Direct network manually.

NOTE

When the machine receives the Wi-Fi Direct request from your mobile device, the message `Received Wi-Fi Direct connection request.` will be displayed. Press `Connect` to connect.

- 1 Press `Settings`.
- 2 Press  or  to choose `Network`.
- 3 Press  or  to choose `Wi-Fi Direct`.
- 4 Press  or  to choose `Manual`.
- 5 When `Wi-Fi Direct On?` is displayed, press `On` to accept.
To cancel, press `Off`.
- 6 The machine will show the SSID name and Password for two minutes. Go to the wireless network settings page of your mobile device and enter the SSID name and password.
- 7 If your mobile device connects successfully, the machine displays the message `Connected`.
You have completed the Wi-Fi Direct network setup. For details on printing from or scanning to your mobile device, download the Mobile Print/Scan Guide for Brother iPrint&Scan or the AirPrint Guide from the Brother Solutions Center (<http://solutions.brother.com/>).
If the connection fails, see *Troubleshooting* on page 14.

Overview

This section explains how to resolve typical network problems you may encounter when using the Brother machine. If, after reading this chapter, you are unable to resolve your problem, visit the Brother Solutions Center at <http://solutions.brother.com/>.

For details, go to the Brother Solutions Center at (<http://solutions.brother.com/>) and click **Manuals** on your model page to download other manuals.

Identifying the problem

Make sure you have checked the following:

The power cord is connected correctly and the Brother machine is turned on.

All protective packaging has been removed from the machine.

The ink cartridges are installed correctly.

The Scanner Cover and the Jam Clear Cover are fully closed.

Paper is inserted correctly in the paper tray.

Go to the page for your solution from the lists below

Problem	See page
I see error messages when configuring the Wi-Fi Direct from the control panel menu	14
I cannot complete the Wi-Fi Direct network setup configuration	16
I want to make sure that my network devices are working correctly	16

Error messages when configuring Wi-Fi Direct from the control panel menu

Error Message	Cause	Action
(For MFC-J2510/J4510 DW/J4710DW) Connection Fail (For DCP-J4110DW, MFC-J2310/J4310DW/ J4410DW/J4610DW) Connection Fail	The Brother machine and your mobile device cannot communicate during the configuration.	<ul style="list-style-type: none"> ■ Move the mobile device closer to your Brother machine. ■ Move your Brother machine and the mobile device to an obstruction-free area. ■ If you are using the PIN Method of WPS, make sure you have entered the correct PIN.

Error messages when configuring Wi-Fi Direct from the control panel menu (continued)

Error Message	Cause	Action
<p>(For MFC-J2510/J4510DW/J4710DW)</p> <p>Connection Error</p> <p>(For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW)</p> <p>Connection Error</p>	Other devices are trying to connect to the Wi-Fi Direct network at the same time.	Make sure there are no other devices trying to connect to the Wi-Fi Direct network and then try to configure the Wi-Fi Direct settings again.
<p>(For MFC-J2510/J4510DW/J4710DW)</p> <p>No Device</p> <p>(For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW)</p> <p>No Device</p>	The Brother machine cannot find your mobile device.	<ul style="list-style-type: none"> ■ Make sure your machine and mobile device are in the Wi-Fi Direct mode. ■ Move the mobile device closer to your Brother machine. ■ Move your Brother machine and the mobile device to an obstruction-free area. ■ If you are manually configuring the Wi-Fi Direct network, make sure you have entered the correct password. ■ If your mobile device has a configuration page for how to obtain an IP address, make sure the IP address of your mobile device has been configured via DHCP.
<p>(For MFC-J2510/J4510DW/J4710DW)</p> <p>A device is already connected. Press [OK].</p> <p>(For DCP-J4110DW, MFC-J2310/J4310DW/J4410DW/J4610DW)</p> <p>A device is already connected. Press [OK].</p>	Another mobile device is already connected to the Wi-Fi Direct network where the Brother machine is the G/O.	After the current connection between your Brother machine and another mobile device has shut down, try configure the Wi-Fi Direct settings again. Confirm the connection status by printing the Network Configuration Report (see Network User's Guide: <i>Printing the Network Configuration Report</i>).

I cannot complete the Wi-Fi Direct network setup configuration.

Question	Solution
Are your security settings (SSID/password) correct?	<ul style="list-style-type: none"> ■ Reconfirm the SSID and password. When you are configuring the network manually, the SSID and password are displayed on your Brother machine. If your mobile device supports the manual configuration, the SSID and password will be displayed on your mobile device's screen. ■ For details on the SSID name, see <i>SSID</i> on page 17.
Are you using Android™ 4.0? (When your mobile device becomes disconnected in approximately six minutes when using Wi-Fi Direct)	Try the one-push configuration using WPS (recommended) and set the Brother machine as a G/O.
Is your Brother machine placed too far from your mobile device?	Move your Brother machine within about 3.3 feet (1 meter) of the mobile device when you configure the Wi-Fi Direct network settings.
Are there any obstructions (walls or furniture, for example) between your machine and the mobile device?	Move your Brother machine to an obstruction-free area.
Is there a wireless computer, Bluetooth supported device, microwave oven or digital cordless phone near the Brother machine or the mobile device?	Move other devices away from the Brother machine or the mobile device.
I have checked and tried all of the above, but still cannot complete the Wi-Fi Direct configuration. Is there anything else I can do?	<ul style="list-style-type: none"> ■ Turn your Brother machine Off and back On. Then try and configure the Wi-Fi Direct settings again. ■ If you are using your Brother machine as a client, confirm how many devices are allowed in the current Wi-Fi Direct network and then check how many devices are connected.

I want to make sure that my network devices are working correctly.

Question	Solution
Are your Brother machine and mobile device turned on?	Make sure you have confirmed all instructions in <i>Make sure you have checked the following</i> : on page 14.
Where can I find my Brother machine's network settings, such as IP address?	Print the Network Configuration Report (see Network User's Guide: <i>Printing the Network Configuration Report</i>).

Wi-Fi Direct network terms

Group Owner (G/O)

If you set Group Owner to `On`, your Brother machine serves as an access point when you configure a Wi-Fi Direct network. The G/O assigns an SSID name, password and IP address for the Wi-Fi Direct network. The default setting is `Off`.

Device Information

Device Name

You can check the device name of the Brother machine in the Wi-Fi Direct network environment. The device name will be shown as MFC-xxxx or DCP-xxxx (where xxxx is your model name.).

SSID

This field displays the current Wi-Fi Direct network SSID name. The display shows up to 32 characters of the SSID name.

IP Address

This field displays the current IP address of the machine, as assigned by the G/O.

Status Information

Status

This field displays the current Wi-Fi Direct network status. When your machine is a G/O, it displays the message `G/O Active(**)` (where ** is the number of devices). When your machine is a client, the machine displays the message `Client Active`. If you see `Off`, your machine's Wi-Fi Direct interface is disabled.

Signal

This field displays the current Wi-Fi Direct network signal strength.

Channel

This field displays the current Wi-Fi Direct network channel.

Speed

This field displays the current Wi-Fi Direct network speed.

I/F Enable

If you want to use the Wi-Fi Direct network connection, set `I/F Enable` to `On`.

Network terms and concepts

Network terms

■ WPA2-PSK

Enables a Wi-Fi Protected Access Pre-shared key (WPA-PSK/WPA2-PSK), which enables the Brother wireless machine to associate with access points using TKIP for WPA-PSK or AES for WPA-PSK and WPA2-PSK (WPA-Personal).

■ AES

Advanced Encryption Standard (AES) provides stronger data protection by using a symmetric-key encryption.

■ WPA2 with AES

Uses a Pre-Shared Key (PSK) that is 8 or more characters in length, up to a maximum of 63 characters.

■ SSID

Each wireless network has its own unique network name and it is technically referred to as the Service Set Identification (SSID). The SSID is a 32-byte or less value and is assigned to the access point. The wireless network devices you want to associate to the wireless network should match the access point. The access point and wireless network devices regularly send wireless packets (referred to as beacons) which have the SSID information. When your wireless network device receives a beacon, you can identify wireless networks that are close enough to connect to.

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